ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 599 (2000) 321–322

Journal of Organometallic Chemistry

Author Index of Volume 599

Abd-Elzaher, M.M., 288
Akasaka, T., 216
Al-Azab, F., 166
Al-Obaidy, F.N.K., 166
Alt, H.G., 261, 275
Arroyo, M., 170

Balakrishna, M.S., 159
Ball, I.K., 185
Bandoh, S., 135
Bashilov, V.V., 28, 37
Becker, T.M., 308
Beck, W., 238
Bernès, S., 170
Birk, U., 247
Brianso, J.L., 170
Buono, G., 304
Butin, K.P., 37

Caiazzo, A., 298
Canty, A.J., 195
Carano, M., 62
Ceroni, P., 62
Chang, C.-J., 128
Chang, H.Y., 49
Chang, S.-C., 128
Chien, J.C.W., 107
Chistyakov, A.L., 18
Choi, M.-G., 49

Da Ros, T., 62
Denisovich, L.I., 87

Esteruelas, M.A., 178

Fischer, H., 288
Froneck, T., 288
Fujitsuka, M., 216

García-Báez, E.V., 313
Geisbauer, A., 238
Ginzburg, A.G., 37
Gómez-Lor, B., 8
Guldi, D.M., 2, 62
Gutiérrez, J.A., 147
Gvozdev, V., 288

Hackler, U.E., 32
Hammud, J.A., 166
Harrison, P.G., 185
He, R., 143
Herranz, M.A., 2
Herrero, J., 178
Hidai, M., 221
Hirao, T., 135
Ho, D.M., 308
Hoffman, D.M., 112
Hsu, H.-F., 97
Huang, H., 42

Igau, A., 304
Iglesias, M., 8
Iikura, H., 32
Ishii, Y., 221
Ito, O., 216

Jang, E.K., 232
Jawad, J.K., 166
Jung, I., 208
Jung, J.-H., 112
Jung, T.S., 232

Kako, M., 216
Kalina, O.G., 28
Karim, M.M., 261, 275
Kim, C., 123, 208
Kim, D.H., 232
Kim, J.H., 232
Klaman, A., 159
Konishi, T., 216
Kravchuk, D.N., 37
Kuwata, S., 221

Lazzaroni, R., 298
Lee, K., 49
Lee, T.R., 112
Licht, E.H., 261, 275
Li, R., 143
Liu, S., 74

Maeda, Y., 216
Magdesieva, T.V., 37
Maldanis, R.J., 107
Mandal, S.K., 308
Marchi, C., 304
Martín, M., 178
Martín, N., 2
Mason, M.R., 200
Matsuzaka, H., 221
Mayoral, E., 170
McEachin, C., 308
Miyaji, Y., 135
Moriuchi, T., 135

Nakadaira, Y., 216
Nakamura, E., 32
Nishio, M., 221
Nolan, S.P., 159
Novikov, Y.N., 87

Ogio, K.-i., 221
Ohama, T., 32
Oro, L.A., 178
Ōsawa, E., 57
Ozawa, M., 57

Panda, R., 159
Paolucci, F., 62
Park, B., 232
Park, J.T., 49
Patel, J., 195
Paz-Sandoval, M.A., 147
Peregudova, S.M., 87
Perkins, A.M., 200
Petrovskii, P.V., 37
Pierre Majoral, J., 304
Polborn, K., 238
Pontorno, L., 298
Prato, M., 62

Qian, M., 143

Rausch, M.D., 107
Real, V.M., 178
Retbøll, M., 221
Richards, R.L., 170
Rius, J., 170
Robles, J., 147
Roffia, S., 62
Rosales-Hoz, M.J., 313
Roth, G., 288

Sánchez-Cabrera, G., 313
Sánchez, L., 2
Santos, A., 8
Sasaki, Y., 216
Sawamura, M., 32
Seoane, C., 2
Settambolo, R., 298
Shapley, J.R., 97
Shen, Y., 143
Shim, Y.-B., 232
Shin, S.C., 232
Skelton, B.W., 195
Slanina, Z., 57
Smith Jr., D.C., 159
Soheili, S., 247
Sokolov, V.I., 28, 37
Song, H., 49
Son, S., 123
Stankevich, I.V., 18
Stramm, C., 247
Sünkel, K., 247
Sun, S., 74
Suo, Z., 69

Teuber, R., 247
Torr, A., 185
Torrens, H., 170
Tumanskii, B.L., 28

PII: S0022-328X(00)00100-5

Uhlik, F., 57
Usatov, A.V., 87

Valli, L., 62
Vinogradova, L.E., 87
Vorontsov, E.V., 87

Wakahara, T., 216
Wang, M., 143
Wang, Z.-X., 256
Wei, X., 69
White, A.H., 195
Williams, M.T., 308
Woisetschläger, O.E., 238

Xu, Z., 69

Yang, S., 42
Yeh, M.-C.P., 128
Yin, G., 69

Zhao, H., 256
Zhao, X., 57
Zhou, X.-G., 256
Zhou, Z.-Y., 256

ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 599 (2000) 323–328

Journal of Organometallic Chemistry

Subject Index of Volume 599

Ab initio HF/3-21G method
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18
Alkali-metal fullerides
Alkali-metal fullerides $MC_{60}(THF)_x$ (M = Li, Na, K): a new solution-phase method for the preparation and characterization with ESR, UV–NIR and IR spectroscopy, 69
Asymmetric catalysis
New mono- and polyazafulleroids $C_{60}(NR)_n$ (n = 1, 2, 4, 6) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Atom Fe
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18

Carbon-60
Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97
Carbon-70
Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97
Catalysis
Computational modeling of the elemental catalysis in the Stone–Wales fullerene rearrangements, 57
Cluster
Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97
Cp ligand
Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}, 32
Crystal structure
Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2,\eta^2,\eta^2$-$C_{60})$ (n = 1, 2, 3), 49
Cyclic voltammetry
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2
Cyclopentadiene
Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}, 32

Donor–acceptor dyads
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2
Dynamic NMR
Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97

Electrochemistry
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties, 87
Electron transfer
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2
Endohedral clusters
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18
Endohedral metallofullerene
Langmuir–Blodgett films of the endohedral metallofullerene $Dy@C_{82}$ at the air–water interface, 42
Recent progress in the studies of endohedral metallofullerenes, 74
EPR
Metal-containing fullerenyl radicals: generation in solution and EPR study, 28
ESR spectroscopy
Alkali-metal fullerides $MC_{60}(THF)_x$ (M = Li, Na, K): a new solution-phase method for the preparation and characterization with ESR, UV–NIR and IR spectroscopy, 69
π-Extended tetrathiafulvalenes
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2

Ferrocene diphosphine ligand
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Fluorescence
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2
Fluxional processes
Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2,\eta^2,\eta^2$-$C_{60})$ (n = 1, 2, 3), 49
Free radical
Metal-containing fullerenyl radicals: generation in solution and EPR study, 28
[60]Fullerene
New mono- and polyazafulleroids $C_{60}(NR)_n$ (n = 1, 2, 4, 6) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Fullerene
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Computational modeling of the elemental catalysis in the Stone–Wales fullerene rearrangements, 57
Metal-containing fullerenyl radicals: generation in solution and EPR study, 28
Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}, 32
[60]Fullerene
New π-extended tetrathiafulvalence-containing fulleropyrrolidine dyads endowed with vinyl spacers, 2

PII: S0022-328X(00)00101-7

Fullerene complexes
Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97
Fullerenes
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18
Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties, 87
Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads, 62

Heterobimetallic complex
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Hydrofullerenes
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18

Iridium
Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties, 87
Isolation
Recent progress in the studies of endohedral metallofullerenes, 74

Langmuir–Blodgett
Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads, 62
Langmuir–Blodgett film
Langmuir–Blodgett films of the endohedral metallofullerene $Dy@C_{82}$ at the air–water interface, 42

Metallofullerene
Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2,\eta^2,\eta^2$-$C_{60})$ ($n = 1, 2, 3$), 49
Molecular orbital calculations
Computational modeling of the elemental catalysis in the Stone–Wales fullerene rearrangements, 57
Molecular orbitals
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Monoazafulleroid
New mono- and polyazafulleroids $C_{60}(NR)_n$ ($n = 1, 2, 4, 6$) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Multiple addition
Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}, 32

Organocopper reagent
Single-step synthesis of pentaaryl-monohydro[60]fullerenes through fivefold addition of organocopper reagent to C_{60}, 32

Palladium
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37
Phosphine
Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2,\eta^2,\eta^2$-$C_{60})$ ($n = 1, 2, 3$), 49
Photophysics
Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads, 62
Platinum
Metal-containing fullerenyl radicals: generation in solution and EPR study, 28
Polyazafulleroids
New mono- and polyazafulleroids $C_{60}(NR)_n$ ($n = 1, 2, 4, 6$) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Porphyrin
Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads, 62
Property
Recent progress in the studies of endohedral metallofullerenes, 74

Quantum-chemical calculations
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18

Rearrangements
Computational modeling of the elemental catalysis in the Stone–Wales fullerene rearrangements, 57
Rh complexes
New mono- and polyazafulleroids $C_{60}(NR)_n$ ($n = 1, 2, 4, 6$) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Rhodium
Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties, 87
Ruthenium
Synthesis, electrochemistry, Langmuir–Blodgett deposition and photophysics of metal-coordinated fullerene–porphyrin dyads, 62

Triruthenium cluster complexes of C_{60} and C_{70}: carbonyl site exchange probed via triphenylphosphine ligand derivatives, 97
Sandwich complexes
Endohedral analogs of ferrocene: ab initio theoretical predictions, 18
(2*S*,4*S*)-4-Azido-1-benzyloxycarbonyl-2-('butylaminocarbonyl) pyrrolidine
New mono- and polyazafulleroids $C_{60}(NR)_n$ ($n = 1, 2, 4, 6$) derived from a chiral azide containing *N*- and *O*-donor groups, and reactivity with $[RhCl(CO)_2]_2$, 8
Structure
Recent progress in the studies of endohedral metallofullerenes, 74
Synthesis
Alkali-metal fullerides MC_{60} $(THF)_x$ (M = Li, Na, K): a new solution-phase method for the preparation and characterization with ESR, UV–NIR and IR spectroscopy, 69
A new heterobimetallic palladium–[60]fullerene complex with bidentate bis-1,1′-$[P]_2$-ferrocene ligand, 37

Recent progress in the studies of endohedral metallofullerenes, 74
Transition metal hydrides
Exohedral mono- and bimetallic hydride complexes of rhodium and iridium with C_{60} and C_{70}: syntheses and electrochemical properties, 87
Triosmium carbonyl cluster
Fluxional processes and structural characterization of μ_3-η^2,η^2,η^2-C_{60} triosmium cluster complexes, $Os_3(CO)_{9-n}(PMe_3)_n(\mu_3$-$\eta^2,\eta^2,\eta^2$-$C_{60})$ ($n = 1, 2, 3$), 49

Alkenyl ligand
Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$, 256
Alkyl complexes
Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes, 112
Alkyne
Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-Cl})(\mu\text{-SPr}^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221
Alkyne complexes
Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes, 112
Alkyne(pentacarbonyl)chromium
Addition of *N*-aryl imines to alkyne(pentacarbonyl)chromium and tungsten — a novel route to alkenyl(amino)carbene complexes, 288
Alkyne(pentacarbonyl)tungsten
Addition of *N*-aryl imines to alkyne(pentacarbonyl)chromium and tungsten — a novel route to alkenyl(amino)carbene complexes, 288
Aluminum
Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200
Aminocyclopentadienyl complexes
Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N-Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4\text{–NH–N=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-1,2}]$, 247
Azapentadienyl compounds
Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147
Azidocyclopentadienyl complexes
Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N-Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4\text{–NH–N=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-1,2}]$, 247

Bis(diphenylphosphino)amine
The reaction of $[Ru_3(CO)_{12}]$ with bis(diphenylphosphino)amine. The crystal and molecular structure of $[Ru_3(CO)_{10}(dppa)]$ and $[Ru_3(CO)_8(dppa)_2]$, 313
Bis(ferrocenyl)-1,3-diketones
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
Bis(phosphino)amines
Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)Ph_2$ (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system, 159
Bridging-selenium ligand
Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$, 256
Bridging-sulfur ligand
Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$, 256

C_{60}
Photoinduced electron-transfer reaction between C_{60} and cyclic silicon compounds, 216
Carbosilane
Preparation of double-layered dendritic carbosilanes, 123
Preparation of ethynylsilane dendrimers, 208
Catalysis
Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200
Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298
Mechanism of the hydrogenation of 2,5-norbornadiene catalyzed by $[Rh(NBD)(PPh_3)_2]BF_4$ in dichloromethane: a kinetic and spectroscopic investigation, 178
ω-Phenylalkyl-substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization, 275
Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes, 261
C–C coupling
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
CF bond activation
C–F bond activation in polyfluorobenzothiolate compounds of Os(III). X-ray structures of $[Os(SC_6F_4(F\text{-}2))(SC_6F_5)_2(PMe_2Ph)_2]$, $[Os(SC_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)]$ and $[Os(C_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)_2]$, 170
CH activation
Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes, 261
Chemoselectivity
Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298
Chiral phosphanes
Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes, 304
Chromium
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
Cluster
Synthesis and physical properties of α,ω-bis$[Co_2(CO)_6\{\mu\text{-}\eta^2\text{:}\eta^2\text{-C(R)=C}\}]$oligothiophenes, 232
Cobalt
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
Complexes
Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$, 256
Conducting polymers
Synthesis and physical properties of α,ω-bis$[Co_2(CO)_6\{\mu\text{-}\eta^2\text{:}\eta^2\text{-C(R)=C}\}]$oligothiophenes, 232
Crystal structure
A novel heterobimetallic complex composed of the imide-bridged [3]ferrocenophane and the tridentate palladium(II) complex, 135

Facial and meridional [N–C–N]$^-$ intramolecular coordination systems: structure of *fac*-$PtBrMe_2\{2,6\text{-}(pzCH_2)_2C_6H_3\}\cdot 1/2C_6H_6$ {[2,6-$(pzCH_2)_2C_6H_3]^-$ = 2,6-(bis{(pyrazol-1-yl)-methyl}phenyl)} and *mer*-$PtBr\{2,6\text{-}(3,5\text{-}Me_2pzCH_2)_2\text{-}C_6H_3\}$, and an alternative synthetic route to the platinum(II) [N–C–N]$^-$ kernel, 195

Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238

Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N-Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4\text{–}NH\text{–}N{=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-}1,2]$, 247

Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-}Cl)(\mu\text{-}SPr^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221

Cyclic organosilicon compounds

Photoinduced electron-transfer reaction between C_{60} and cyclic silicon compounds, 216

Cyclic voltammetry

Synthesis and physical properties of α,ω-bis$[Co_2(CO)_6\{\mu\text{-}\eta^2{:}\eta^2\text{-}C(R){\equiv}C\}]$oligothiophenes, 232

Cyclization

Oligomerization and simultaneous cyclization of ethylene to methylenecyclopentane catalyzed by zirconocene complexes, 143

Cyclopentanone

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)-$Fe(CO)_3$ complexes, 128

Dendrimer

Preparation of double-layered dendritic carbosilanes, 123

Preparation of ethynylsilane dendrimers, 208

Diene

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)-$Fe(CO)_3$ complexes, 128

Dinuclear complex

Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-}Cl)(\mu\text{-}SPr^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221

Electron-withdrawing

The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107

Enthalpy

Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)Ph_2$ (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system, 159

Epoxide

Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200

Ethylene oligomerization

Oligomerization and simultaneous cyclization of ethylene to methylenecyclopentane catalyzed by zirconocene complexes, 143

Ethylene polymerization

ω-Phenylalkyl-substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization, 275

Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes, 261

Ethynyl silane

Preparation of double-layered dendritic carbosilanes, 123

Ethynylsilane

Preparation of ethynylsilane dendrimers, 208

[3]Ferrocenophane

A novel heterobimetallic complex composed of the imide-bridged [3]ferrocenophane and the tridentate palladium(II) complex, 135

Formato complexes

Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O, 308

Friedel–Crafts acylation

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)-$Fe(CO)_3$ complexes, 128

FTIR

FTIR study of thermally induced transformations of trimethylsilylmethyl acetate in the temperature range 623–813 K, 185

Germanium

Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147

Half-sandwich complexes

The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107

Heterobimetallic complex

A novel heterobimetallic complex composed of the imide-bridged [3]ferrocenophane and the tridentate palladium(II) complex, 135

Hydroformylation

Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298

Hydrogenation

Mechanism of the hydrogenation of 2,5-norbornadiene catalyzed by $[Rh(NBD)(PPh_3)_2]BF_4$ in dichloromethane: a kinetic and spectroscopic investigation, 178

Hydrosilation

Preparation of ethynylsilane dendrimers, 208

Hydrosilylation

Preparation of double-layered dendritic carbosilanes, 123

Insertion reaction

Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes, 112

Intramolecular

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)$Fe(CO)_3$ complexes, 128

Intramolecular coordination

Facial and meridional [N–C–N]$^-$ intramolecular coordination systems: structure of *fac*-$PtBrMe_2\{2,6\text{-}(pzCH_2)_2C_6H_3\}\cdot 1/2C_6H_6$ {[2,6-$(pzCH_2)_2C_6H_3]^-$ = 2,6-(bis{(pyrazol-1-yl)-methyl}phenyl)} and *mer*-$PtBr\{2,6\text{-}(3,5\text{-}Me_2pzCH_2)_2\text{-}C_6H_3\}$, and an alternative synthetic route to the platinum(II) [N–C–N]$^-$ kernel, 195

Iridium

Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-}Cl)(\mu\text{-}SPr^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221

Iron

Intramolecular Friedel–Crafts acylation of acyclic (η^4-diene)-$Fe(CO)_3$ complexes, 128

Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238

Reactions of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-Cl})Fe_2(CO)_6$ with $[(\mu\text{-E})(\mu\text{-R}^1E^1)Fe_2(CO)_6]^-$ (E, E^1 = S or Se). Synthesis and characterization of $(\mu\text{-}\eta^2\text{-RCH=CH})(\mu\text{-R}^1S)[Fe_2(CO)_6]_2(\mu_4\text{-E})$ and $[(\mu\text{-}\eta^2\text{-PhCH=CH})Fe_2(CO)_6]_2(\mu_4\text{-Se})$, 256

Kinetics
Mechanism of the hydrogenation of 2,5-norbornadiene catalyzed by $[Rh(NBD)(PPh_3)_2]BF_4$ in dichloromethane: a kinetic and spectroscopic investigation, 178

Lithium azapentadienyls
Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147

Manganese
Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N- Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4\text{–NH–N=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-1,2}]$, 247
Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O, 308

Metallacycles
Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes, 261

Metallocene
Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes, 304

Metallocene complexes
ω-Phenylalkyl-substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization, 275

Metallocenes
The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107

Methylenecyclopentane
Oligomerization and simultaneous cyclization of ethylene to methylenecyclopentane catalyzed by zirconocene complexes, 143

MO calculations
Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-Cl})(\mu\text{-SPr}^i)_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221

Mononuclear
Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)Ph_2$ (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system, 159

N-aryl imines
Addition of *N*-aryl imines to alkyne(pentacarbonyl)chromium and tungsten — a novel route to alkenyl(amino)carbene complexes, 288

N-functionalized cymantrenes
Koordinationschemie perhalogenierter Cyclopentadiene und Alkine, XXVI. [1]. Umsetzung von lithiierten Halogencymantrenen mit N- Elektrophilen. Molekülstrukturen von $(OC)_3Mn[\eta^5\text{-}C_5Cl_4\text{–NH–N=}C_5Cl_4]$ und $(OC)_3Mn[\eta^5\text{-}C_5H_3Cl(NH_2)\text{-1,2}]$, 247

Olefins
The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107

Oligothiophenes
Synthesis and physical properties of α,ω-bis$[Co_2(CO)_6\{\mu\text{-}\eta^2\text{:}\eta^2\text{-C(R)≡C}\}]$oligothiophenes, 232

Opening reaction
Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes, 304

Organometallic azapentadienes
Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147

Organoplatinum
Facial and meridional $[N\text{–}C\text{–}N]^-$ intramolecular coordination systems: structure of *fac*-$PtBrMe_2\{2,6\text{-}(pzCH_2)_2C_6H_3\}\cdot 1/2C_6H_6$ ($\{[2,6\text{-}(pzCH_2)_2C_6H_3]^- = 2,6\text{-(bis\{(pyrazol-1-yl)-methyl\}phenyl)}\}$ and *mer*-$PtBr\{2,6\text{-}(3,5\text{-}Me_2pzCH_2)_2\text{-}C_6H_3\}$, and an alternative synthetic route to the platinum(II) $[N\text{–}C\text{–}N]^-$ kernel, 195

Osmium
C–F bond activation in polyfluorobenzothiolate compounds of Os(III). X-ray structures of $[Os(SC_6F_4(F\text{-}2))(SC_6F_5)_2\text{-}(PMe_2Ph)_2]$, $[Os(SC_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)]$ and $[Os(C_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)_2]$, 170

Oxidative addition
Facial and meridional $[N\text{–}C\text{–}N]^-$ intramolecular coordination systems: structure of *fac*-$PtBrMe_2\{2,6\text{-}(pzCH_2)_2C_6H_3\}\cdot 1/2C_6H_6$ ($\{[2,6\text{-}(pzCH_2)_2C_6H_3]^- = 2,6\text{-(bis\{(pyrazol-1-yl)-methyl\}phenyl)}\}$ and *mer*-$PtBr\{2,6\text{-}(3,5\text{-}Me_2pzCH_2)_2\text{-}C_6H_3\}$, and an alternative synthetic route to the platinum(II) $[N\text{–}C\text{–}N]^-$ kernel, 195
Solvent effects on the rate of oxidative addition of methyl iodide to di(4-thiocresol)(2,2′-bipyridyl) platinum(II), 166

Palladium
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238

Phosphines
Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298

Phosphonate
Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200

Phosphoranes
Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes, 304

Photoinduced electron transfer
Photoinduced electron-transfer reaction between C_{60} and cyclic silicon compounds, 216

Platinum
Solvent effects on the rate of oxidative addition of methyl iodide to di(4-thiocresol)(2,2′-bipyridyl) platinum(II), 166

Platinum catalyst
Preparation of double-layered dendritic carbosilanes, 123
Preparation of ethynylsilane dendrimers, 208

Polyether
Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200

Polyfluorobenzothiolate
C–F bond activation in polyfluorobenzothiolate compounds of Os(III). X-ray structures of $[Os(SC_6F_4(F\text{-}2))(SC_6F_5)_2\text{-}(PMe_2Ph)_2]$, $[Os(SC_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)]$ and $[Os(C_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)_2]$, 170

Polymerization
Alkylaluminophosphonate-catalyzed ring-opening homopolymerization of epichlorohydrin and propylene oxide, 200

Polymerizations
The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107

Rhenium
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O, 308
Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes, 112
Rhodium
Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298
Mechanism of the hydrogenation of 2,5-norbornadiene catalyzed by $[Rh(NBD)(PPh_3)_2]BF_4$ in dichloromethane: a kinetic and spectroscopic investigation, 178
Reactions of cationic dirhodium and diiridium complexes $[Cp^*M(\mu\text{-}Cl)(\mu\text{-}SPr')_2MCp^*][OTf]$ (M = Rh, Ir) with terminal alkynes. Comparison with the diruthenium system, 221
Ruthenium
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238
Ruthenium cluster
The reaction of $[Ru_3(CO)_{12}]$ with bis(diphenylphosphino)amine. The crystal and molecular structure of $[Ru_3(CO)_{10}(dppa)]$ and $[Ru_3(CO)_8(dppa)_2]$, 313
Ruthenium(II) complexes
Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)Ph_2$ (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system, 159

Silicon
Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147
Solvent effects
Solvent effects on the rate of oxidative addition of methyl iodide to di(4-thiocresol)(2,2′-bipyridyl) platinum(II), 166
Synthesis
Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O, 308

Thermal decomposition
FTIR study of thermally induced transformations of trimethylsilylmethyl acetate in the temperature range 623–813 K, 185
Thermochemistry
Ruthenium(II) chemistry of phosphorus-based ligands, $Ph_2PN(R)PPh_2$ (R = Me or Ph) and $Ph_2PN(Ph)P(E)Ph_2$ (E = S or Se). Solution thermochemical study of ligand substitution reactions in the Cp′RuCl(COD) (Cp′ = Cp, Cp*; COD = cyclooctadiene) system, 159
Thermolysis
C–F bond activation in polyfluorobenzothiolate compounds of Os(III). X-ray structures of $[Os(SC_6F_4(F\text{-}2))(SC_6F_5)_2(PMe_2Ph)_2]$, $[Os(SC_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)]$ and $[Os(C_6F_5)_2(o\text{-}S_2C_6F_4)(PMe_2Ph)_2]$, 170
Tin
Synthesis, characterization and a theoretical investigation of the formation of silicon, germanium and tin azapentadiene compounds from lithium azapentadienyls, 147
Titanium
The formation and polymerization behavior of (pentafluorophenyl)-cyclopentadienyl titanium compounds, 107
Tridentate podand ligand
A novel heterobimetallic complex composed of the imide-bridged [3]ferrocenophane and the tridentate palladium(II) complex, 135
Trimethylsilylacetate
FTIR study of thermally induced transformations of trimethylsilylmethyl acetate in the temperature range 623–813 K, 185
Tungsten
Kohlenwasserstoffverbrückte Metallkomplexe, XLVIII. Addition von Bis(ferrocenyl)-1,3-diketonen und von Metalldiketonaten an koordinierte, ungesättigte Kohlenwasserstoffe von kationischen Komplexen, 238

Vinylpyridines
Chemoselectivity in the rhodium-catalyzed hydroformylation of 4-vinylpyridine: crucial role of phosphine ligand in promoting carbonylation instead of hydrogenation, 298

X-ray structure
Synthesis and X-ray structures of manganese(I) and rhenium(I) formato complexes, *fac*-$(CO)_3$(dppp)M–OC(H)O, 308

The reaction of $[Ru_3(CO)_{12}]$ with bis(diphenylphosphino)amine. The crystal and molecular structure of $[Ru_3(CO)_{10}(dppa)]$ and $[Ru_3(CO)_8(dppa)_2]$, 313
Ylide complexes
Synthesis, X-ray crystallographic, and reactivity studies of rhenium(V) alkyne complexes, 112

Zirconium
ω-Phenylalkyl-substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization, 275
Selective P–N bond cleavage in chiral triquinphosphoranes promoted by zirconocene complexes, 304
Zirconocene complexes
Oligomerization and simultaneous cyclization of ethylene to methylenecyclopentane catalyzed by zirconocene complexes, 143
Synthesis, characterization and catalytic properties of metallacyclic zirconocene complexes, 261